

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A biochemical analyzing method comprising the steps of fixing probes selected in advance on a substrate; binding a target with at least one of the probes using a specific binding reaction to capture the target;

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fractionating a combined bodies body of the probe, and the captured target and a substance derived from a living organism other than the captured target which is bound with the probe due to a similarity in structure;

detecting only a fractionated target; and

quantitatively analyzing the detected target, wherein the probes are spotted on the substrate and fixed thereon, and the combined body bodies of the probe, and the captured targets and the substance derived from a living organism other than the target is are electrophoresed, thereby being fractionated,

wherein during the fractionating, the combined body bodies of the probe and the captured target and the substance derived from a living organism other than the target is separated into a plurality of fractions based on molecular weight.

2. (currently amended): The biochemical analyzing method in accordance with Claim 1, wherein the target is bound with the probes at least one probe using hybridization.

3. canceled.

4. (currently amended): The biochemical analyzing method in accordance with Claim 1, wherein the respective captured targets are combined body of the probe, the captured target and the substance derived from a living organism other than the target is electrophoresed in a direction at an angle with the surface of the substrate, thereby being fractionated.

5. (currently amended): The biochemical analyzing method in accordance with Claim 4, wherein the respective captured targets are combined body of the probe, the captured target and the substance derived from a living organism other than the target is electrophoresed in gel adjacent and in contact with to the substrate, thereby being fractionated.

6. (currently amended): The biochemical analyzing method in accordance with Claim 5, wherein the respective captured targets are combined body of the probe, the captured target and the substance derived from a living organism other than the target is electrophoresed in a block of gel adjacent to the substrate, thereby being fractionated.

7. (currently amended): The biochemical analyzing method in accordance with Claim 4, wherein the respective captured targets are combined body of the probe, the captured target and the substance derived from a living organism other than the target is electrophoresed in a plurality of capillaries adjacent to and in contact with the substrate, thereby being fractionated.

8. (previously presented): The biochemical analyzing method in accordance with Claim 7, wherein the plurality of capillaries are filled with a material capable of forming a membrane filter or a gel.

9. canceled.

10. (previously presented): The biochemical analyzing method in accordance with Claim 1, wherein the probes are one-dimensionally spotted on the substrate to form a plurality of spots and are fixed thereon.

11. (previously presented): The biochemical analyzing method in accordance with Claim 1, wherein the probes are two-dimensionally spotted on the substrate to form a plurality of spots and are fixed thereon.

12. (previously presented): The biochemical analyzing method in accordance with Claim 1, wherein the target consists of a gene.

13. (previously presented): The biochemical analyzing method in accordance with Claim 1 which further comprises a step of labeling the target with a fluorescent substance.

14. (previously presented): The biochemical analyzing method in accordance with Claim 13, wherein the target is labeled with the fluorescent substance prior to binding the target with the probes.

15. (currently amended): The biochemical analyzing method in accordance with Claim 13, wherein the combined body of the captured target, the probe and the substance derived from a living organism other than the target is labeled with the fluorescent substance after the respective combined body of the probe, the captured targets and the substance derived from a living organism other than the target were is fractionated.

16. (previously presented): The biochemical analyzing method in accordance with Claim 1 which further comprises a step of labeling the target with a labeling substance which generates chemiluminescent emission when it contacts a chemiluminescent substrate.

17. (previously presented): The biochemical analyzing method in accordance with Claim 16, wherein the step of labeling occurs prior to said binding step.

18. (previously presented): The biochemical analyzing method in accordance with Claim 16, wherein the step of labeling occurs after the fractionating step.

19. (previously presented): The biochemical analyzing method in accordance with Claim 10, wherein the fractionated targets are two-dimensionally scanned and light released from the targets is detected, thereby performing quantitative analysis.

20. (previously presented): The biochemical analyzing method in accordance with Claim 10, wherein light released from the fractionated targets is detected using an area sensor and quantitative analysis is performed.

21. (previously presented): The biochemical analyzing method in accordance with Claim 11, wherein the fractionated targets are three-dimensionally scanned and light released from the targets is detected, thereby performing quantitative analysis.

22. (previously presented): The biochemical analyzing method in accordance with Claim 1, wherein targets electrophoresed to positions in accordance with the kinds of the targets are quantified and analyzed.

23.-41. canceled.